

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [20479] 1/3 WL Vertical

Seems there's interest in a 1/3WL vertical. Here's the details:

About 0.2dB gain over a 1/4WL vertical
One degree lower angle of radiation than a 1/4WL vertical
Good match for 75 ohm coax
Tuned with a series variable CAPACITOR at the antenna

Approximate lengths

20m 21 ft.
17m 16.4 ft.
15m 14.1 ft.
12m 11.9 ft.
10m 10.5 ft.

Note that the SLV with no coil could be modified to satisfy these lengths on 17m-10m.

73, Cecil, W6RCA, 00TC

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Jim Kortge, K8IQY" <jokortge@mci2000.com>
Subject: [20481] 38S DX
Message-ID: <3.0.1.16.19970529181148.28df9c5a@mail-cluster.pcy.mci.net>

Well I may not like the answer, but here goes.....

Of those 38S owners, anybody doing better than 36 DX contacts?

I'm sort of disappointed that I only have 33 states; need to get some of the western states worked, but never hear anybody on from that direction. Anybody in Ohio, Illinois, Indiana hearing any Michigan stations?

Thanks for the bandwidth.....Jim

Jim Kortge, K8IQY (ex NU8N)		NorCal, QRP-L
jokortge@mci2000.com	__o	H.F. bicycle mobile
Fenton, MI	_`\<,	Mizuho 17/40 SSB
...	(*)/(*)	...
NorCal 38S Log - 33 States;		36 Countries - Running 3 watts
Most recent - VA		Senegal

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: [20454] blown mixer4
Message-ID: <01IJFNNOJ0RM8WWOMJ@tntech.edu>

well, I have the QRP++ which had the new "beafier" synergy mixer.

the facts:

the rig wasn't working.
replaced the synergy with a SBL-1.
worked Oshkosh for quite a while on 40 meters with less than a
watt this morning.

think scientific evidence point to the FACT that the mixer was the
problem, since it is the only part we touched.

still have two problems. we couldn't get the old mixer out.. so
just took the top off the synergy and soldered to the top legs.
Really don't think this made much of a difference.

Not sure if this is electronically possible, but having worked on
many problems on qrp transceivers (mostly from blowing things up in
them), I would guess it is. I didn't have a replacement synergy,
so stuck in a SBL-1. The power output is now lower on all bands. 3
watts down till 40. From 40 it starts to go under 1 watt.

guess I should get hold of a synergy mixer (\$25) from Index.

72
Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Randy Hargenrader <randyh@harksystems.com>
Subject: [20469] Bound QRPp's:Great Reference Mat'l
Message-ID: <338DDE6C.4D99@harksystems.com>

Gang,
Run, don't walk to your mailbox and order your bound copies of
QRPp. Or, let your family know this would be a GREAT father's day
(Christmas, Easter, ...) gift. There's four volumes now that would
set you back about \$45.00 but well worth the price. The amount of
info in these volumes is tremendous, not to mention the joy of just

reading about "historical" stuff. This is another Norcal "homerun".
Some examples:

- *Plenty of charts and graphs for reference. (I'm adding these pages to my copy of Paul Hardens QRP reference book) Such as toroid winding, VFO L/C nomographs to name a couple.
 - *Mods and more mods to lots of popular rigs and details to the Norcal equipment.
 - *Hints and kinks of all types from construction practices to operation hints.
 - *Schematics of Epi-this and Pixie-that and Regens and "Recipes for VFO's." (And you thought you couldn't cook!)
 - *I was impressed and suprised by the number and variation of construction items that were covered. From magnetic paddles to tuners (of all types) to frequency counters and more are here for the reading. Lots of great ideas to "borrow"!
- I just had to "plug" these. Pardon the bandwidth.

--

73, (Sir)Randy WJ4P

Knightlites QRP-L #296 ARCI #9152 1996 40-9er High Scorer

From owner-qrp-l@Lehigh.EDU Thu May 29 18:31:28 1997

From: "Bob Kellogg" <ae4ic@nr.infi.net>

Subject: [20462] CQ WW WPX contest

Message-ID: <199705291521.LAA17513@mh004.infi.net>

Hi Alan,

Sorry for the late reply, but my hard disk crashed over the weekend, and I'm just now up and running again. Upgraded while I was at it, so I'm learning new operating system and email software, too.

Had a ball during the contest. It was the first time I'd ever tried one of the world wide contests, and I learned a lot.

Worked 30 or more countries with my 5 watts and omnidirectional horizontal loop antenna. Mostly on 20M with a few 40M and very few on 15M. I haven't made a big effort at DXCC, but some of the email I've read got me to looking at the calls I worked. Hurray!! There are some firsts!! A JA, a couple of VKs, the infamous WL7E.

Did work six continents, I think -- I've got to look some of them up.

QRP won't be any fun when the sun spot cycle is up. --no challenge to it.

CUL,

Bob Kellogg, AE4IC

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Dan Hogan <dhhogan@lightside.com>
Subject: [20445] CQC Web Site
Message-ID: <3.0.1.16.19970528211223.26676186@mail.lightside.com>

Just went there it's OK. Try: <http://www.mtechnologies.com/mthome/cqc.htm>

72/73

Dan Hogan WA6PBY QRP-L #558, CQC #340, NorCal #1806,
dhhogan@lightside.com ARRL, ARCI #3847, G-QRP #9533, FISTS #2949
Lat. 34d 03.5'N Lon. 117d 56.0'W Grid: DM84wc

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: kc4mhm@juno.com (ed miller)
Subject: [20473] EE20
Message-ID: <19970518.095347.4959.1.KC4MHM@juno.com>

QRP-L Gang

Just received the EE20 course material in the mail today. It is a very impressive "introduction to electronics". The little bit of spot reading I've done so far has shown a very practical approach to teaching electronics and am looking forward to spending many enjoyable hours with it. The math seems reasonable and the only prerequisite appears to be a desire to learn.

73 de Ed KC4MHM@juno.com

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Bob Duckworth" <wb4mnf@atl.org>
Subject: [20474] Enough phone debris already!
Message-ID: <199705292031.QAA18382@atl.org>

telecom newsgroups have already beat this horse into fertilizer.

I've some power MOSFETs suitable for that class 'E' amp project. \$20/two. (one for PS and one for TX).
10 amp channel current, 800volt max drain.
I've run as straight amp on 80m.
-bob

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Ed Tanton <n4xy@bellsouth.net>
Subject: [20461] Epoxied mixer removal
Message-ID: <3.0.1.32.19970529112159.009b3320@mail.atl.bellsouth.net>

The weakest axis for epoxy and super glue is in their shear strength. If you will edge a sharpened blade (old screwdriver works well) under one end, and pry upward, usually the object will pop off. You *may* have to chisel it with a small mallet/etc. This may be a problem only if the mfr has prepared the surface before application by roughening/scoring it-especially if the had some holes drilled and it filled those to the other side. (In that case I would drill through them first.) This all sounds violent-but the object is to remove the object-not save it.

If the object is soldered in you obviously must remove the solder first-thoroughly. If there are plated-thru holes I would not trust them afterwards and would place Z-wires in each hole (a #30 fine wire to replace the plating.) Remember, if you want to remove an IC that is soldered down, forget the IC: cut it out, and desolder the remaining pins one at a time. The important point here is to not damage the pcb... you can buy another IC. In the case of a metal-can-type object that's a problem. You just have to desolder and then do the best you can. I cannot emphasize enough the value of desoldering braid for this job. And cut the used length off after each attempt. It contains flux, and using it once uses the flux. If the p-t-hole is large enough, a solder-sucker may do the job, but I prefer braid for smaller or tighter clearance holes. Of course, if you have a Pace (Desoldering Station)... you can just heat and slurp. I rarely use mine however-prefering to just plunge ahead with what I have setup and use braid.

I'm REALLY curious about why these guys were expoxied down. People don't waste manufacturing steps, therefore there must have been some reason in Bruce's mind, and I don't believe it was just to hold the thing down. I wonder if you could get some kind of microphonics through the mixer? Seems to me like RTV would have been a better choice for that. (Sometimes SMT parts are sort of glued down-but not with epoxy-and the mixer wasn't SMT-as I understand it... correct me if I'm wrong about that someone.)

72/73

Ed Tanton N4XY EMAIL: n4xy@bellsouth.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

QRP-ARCI #7663	G-QRP #6779	OK-QRP #172	QRP-L #758	
AdvRC #140	NORCAL #1779		NCDXF	SEDXC

Life Member: ARRL AMSAT INDEXA QCWA

INTERESTS: DX QRP BoatAnchors Test Equipment Photography
CW: 99.9% QRP: 95-100% (Mood swings!) Mercury Paddle #0214

~~~~~  
"Think you can, think you can't: either way you're right!"       Henry Ford  
~~~~~

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Howie Weinstein" <k3hw@hotmail.com>
Subject: [20482] EQUIPMENT FOR SALE
Message-ID: <199705292222.PAA10059@f49.hotmail.com>

Fellow QRPers,
The following Radio Shack /Micronta equipment is for sale. All are new in-box
NEVER USED! Prices include Priority Mail shipping in USA. Please contact me at:

Howard Weinstein K3HW
460 B Barton Run Blvd
Marlton, NJ 08053

(609) 596-4548 (home)
or
k3hw@hotmail.com

Radio Shack DSP-40 Digital Signal Processor #21-543 New in-box \$25.00
shipping via Priority Mail included!

Radio Shack/Micronta Transistor Tester #22-024 New in-box \$25.00 shipping via
Priority Mail included!

Radio Shack Digital SWR/Power Meter (1-1000 watts) #21-527 New in-box \$65.00 -
recently reviewed in May or June 97 QST - shipping via Priority Mail included!

Tnx es 72's

Howard K3HW

Get Your *Web-Based* Free Email at <http://www.hotmail.com>

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: "J.B. Fox" <w5hir@mail.phoenix.net>
Subject: [20478] filter source
Message-ID: <199705292210.RAA27867@raid2.fddi.phoenix.net>

I often get small 455kc filters for ssb and/or cw narrow bandwidth with kits that I purchase. I can not find out where to purchase just these filters alone. Anyone have a good reliable source for such filters (any frequency). Please advise.

Foxy
w5hir@mail.phoenix.net

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [20439] FS: FT-707
Message-ID: <19970528.214841.4607.1.wb2vuo@juno.com>

Yaesu FT-707 HF transceiver: Covers 80 - 10 Meters (Including the 30/17/12 Mtr WARC bands). Up to 100 watts out, but throttles back to milliwatts for QRP. Transverter output on the rear apron (about 1 mW into 50-ohms). Runs USB/LSB/AM/CW, but no FM. Digital display (a sorta greenish-yellow LED) and analog dial with a calibrator (Marker) You could turn the counter off & use the analog dial to save current. Two headset harnesses, but no mike included (Been on CW with it mainly, and borrowed a mike for SSB and AM) Cosmetically fair and elecrtically great. This rig is not mismatch-sensitive and is supposed to still give you 50% power into a 3:1 SWR.

Asking \$375 if you pick up here or at the Rochester Hamfest on 30 May, or \$400 shipped insured by your carrier of choice.

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, 100% QRP
Tech Specialist (ARRL/WNY), ARRL Life Member,
Trustee, KB2YTW/B 10 Mtr QRP Beacon (4 Watts @ 28.2870 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"
Packet - wb2vuo@w2im.#wny.ny.usa.noam *** Email - wb2vuo@juno.com
SnailMail - CBA *** Phone - 716.494.1239

"My Night Light runs more power than my Rig!!!"

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: PDouglas12@aol.com
Subject: [20463] further on AOL Class Action
Message-ID: <970529113215_-1765983797@emout18.mail.aol.com>

Gang,

I did get a number of thank-yous and inquiries on the AOL class action settlement of the "busy signal" controversy of recent months but folks had trouble finding the info online. I then lost track of where on AOL to find the proposed settlement document myself. Found it again: go to keyword: LEGAL NOTICE and print and read the whole thing.
Sorry one more time for the bandwidth, but I figure it will save some of our gang some serious bucks.
72,

Preston WJ2V

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: jim hale <kj5tf@mctc.com>
Subject: [20467] Good deal on battery pack
Message-ID: <338DD042.5167@mctc.com>

About 6 months ago I bought 3, 12v battery packs from All Electronics Corp. CAT# BTC-2 \$10. each.. the're cell phone or camcorder packs, and come with a 800ma wall cahrger. You also need the extra clip/connector CAT# CLS-5 for \$2.
email them for info at allcorp@allcorp.com or www.allcorp.com/

I put a DC coaxial power plug on the CLS-5 and operate my QRP+ and 38 special.
The btry pak has some internal circuit that controls the chargeing. All 3 packs controls went bad in short order, but easy to wire around that and they work fine. This might have been the reason they were put on the surplus market...
There loss, our gain!
I get no kick back for posting this, just a happy customer. gl, de
Jim

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997

From: "W. D. Lindsey" <70511.3041@CompuServe.COM>
Subject: [20476] How Learn ARCI #
Message-ID: <970529210639_70511.3041_IHD34-1@CompuServe.COM>

Gang:

Sometime ago I sent in my check to join ARCI. Although I have not heard directly back from them yet, I am not concerned, what with so many things intervening such as Dayton.

But I would like to learn what ARCI number has been assigned. Will be happy to list this number in my signature block. Anyway, does anyone know of an e-mail or web address one might be able to learn this member number?

Tks in advance es 72/73,
--Doc/K0EVZ qrp-1 861 norcal 2050 cqz 414 mn-qrp 19 ak/qrp 139
nj-qrp 69 ARCI ??? ARRL

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Lee <jcs4us@cosmoaccess.net>
Subject: [20480] HW-8 new in box unbuilt ...How much\$\$???
Message-ID: <1.5.4.32.19970530100819.0075f510@cosmoaccess.net>

Hello there,

What is the value of a Heathkit HW-8 brand new never built??? The box has been opened everything is there but never built... I am looking to give the fellow a fair price for it...73, Lee jcs4us@cosmoaccess.net

----- So far 38-Special Ten Tec 509 Thats it....
-

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [20465] KB2YTW/B QRP 10 Meter Beacon Now NQ2RP
Message-ID: <19970529.125505.13367.0.wb2vuo@juno.com>

The new B/BAMS club call was issued on 28 May, 1997, and the 10 Meter QRP beacon on 28.2870 MHz is now under the call NQ2RP/B. All the other parameters are the same.

Reports on the beacon are appreciated. Email them here to me, if you would.

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, 100% QRP
Tech Specialist (ARRL/WNY), ARRL Life Member,
Trustee, NQ2RP/B 10 Mtr QRP Beacon (4 Watts @ 28.2870 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"
Packet - wb2vuo@w2im.#wny.ny.usa.noam *** Email - wb2vuo@juno.com
SnailMail - CBA *** Phone - 716.494.1239

"My Night Light runs more power than my Rig!!!"

From owner-qrp-l@Lehigh.EDU Thu May 29 18:31:28 1997
From: Michael <MichaelN@cycat.com>
Subject: [20455] Manuals available
Message-ID: <338D7F69.595F@cycat.com>

I have the manuals for the Tempo S-1/2/5 and the Kenwood TR-2400.
If anyone needs these let me know.

I also have a dead (major smoke and fire) TR2400 that may have
a usefull part or two. The LCD display is useable, you can read
the frequency but the low battery indicator is gone.
If you need one of these let me know.

michael N6CHV

From owner-qrp-l@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Kevin F. Glynn" <KFGlynn@prodigy.net>
Subject: [20452] MFJ Website address?
Message-ID: <199705291237.IAA64976@mail1y-int.prodigy.net>

Hi gang,

Does anyone know MFJ's website address?

Tnx for info.

72 Kevin N2TO

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Graham Firth" <Graham.Firth@btinternet.com>
Subject: [20472] My new call (and DIS)
Message-ID: <199705292040.VAA04322@snow.btinternet.com>

Hi gang

I have now got my Extra call - it's AB7VN. I had thought about asking for W3MFJ but I think I'm going to like the new one. It's almost palindromic (on cw that is) and I can send it quicker than the G call. Anyway, the W3 call is a general and now I've got the extra I feel the need to show off!

To add my two pennyworth to the DIS discussion, I thought that the hotel was better & cleaner this year, I think the guys who organise all this should get our thanks & no hassle. Yes, it is expensive, yes they charge extra where they can, but I bet all the other hotels would be as bad if not worse. And we get the extra rooms free and all the other perks - even though we couldn't have wine at the banquet (yes I'm still smarting about that!).

So my vote is to stay, & to present all the poor unloved souls who organise all this every year and then get all the earache afterwards with a HUGE vote of thanks (and a medal!)

72/3 from the other side of the pond.

See you next year

Graham
G3MFJ/AB7VN
(the free mint tin company)

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
Subject: [20434] NE602's - Disappearing?
Message-ID: <864854613.1124034.0@gqrpclub.demon.co.uk>

I was buying some NE602AN's today and my supplier informed me that production of this device has either ceased or is about to so do. Apparently there is a replacement device in the offing. There are large stocks of the 602's around of course, so there is unlikely to be any problem getting them for a couple of years maybe - IF the information is accurate. Does anyone know any more about this? Is it true - or what?

Frank G3YCC
QRP Web Site: <http://www.gqrpclub.demon.co.uk>

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Bob Hirsch <bobh@p3.net>
Subject: [20456] Oak Hills Research and a new station
Message-ID: <3.0.1.32.19970529092100.0068a330@p3.net>

Hello everybody --

Several weeks ago I decided to change my station over to QRP CW only and sold my "big commercial" rig. To that end all equipment at my station has changed and since that decision was made I have built the following kits.

Ten-Tec 9 band regen receiver
Super CMOS III keyer

Oak Hills Research OHR 400
Oak Hills Research DD1
Oak Hills Research SCAF

These were virtually the first kits I've built in over 30 years! The first two were kind of a "warm up" for the last three.

All five are excellent kits.

The three from Oak Hills Research are amazing. Even to my eye it was obvious that the boards, components, enclosures, and instructions were all absolutely top notch. Even the packaging made things easier by having separately labeled bags of parts for each board! Before I bought them I was nervous about the purchase and wondering if I could actually get them together and have a working station that performed well. After asking for opinions on these kits and getting back a huge majority of positive responses from members on this list, and with the moral support of an old friend, I took the plunge.

Everything worked out great! The OHR400 is an absolutely top line rig, and the DD1

and SCAF go a long way toward making the station an even bigger pleasure to work.

The receiver in the OHR400 which was of particular concern to me before I built the

kit, is at least as sensitive as my former "big rig" was. I did take advantage of the

optional service of OHR for them to align it since I had no equipment (an o scope or

frequency counter) here to do it myself. It came back in no time at all and I was on the

air.

A word about Dick Witzke, KE8KL, at Oak Hills. The man makes Job appear to have a

short fuse. During the assembly of the SCAF, which is the simplest of the three OHR I

kits I built, I ran into a problem of no audio when the filter was on.

After checking

everything myself a dozen or so times and not seeing anything, I called Dick for

assistance. After running me through several tests during the phone conversation, I

realized that I had made an incredibly DUMB error. During the final assembly of the

unit I had mistakenly put the two four pin chips in each other's sockets!

Despite my

many visual checks of the unit, I just had not seen it, or it didn't register in my head!

Dick had every right to ask me why I had wasted his time on the phone with such and

absent minded error, but all he cared about was if I needed any replacement parts for

any that had been damaged due to my error. Fortunately nothing had been damaged

and the filter came right up after I put the chips in the right sockets.

With Dick still on

the phone we ran through a final check out and everything was OK.

What all this boils down to is that if any of you are out there on this list or just

"lurking", wondering if you should build that first kit or the first one in a looonnnnggg

time, go for it.

Buy one of Dick's kits while they are on sale, and take a shot. Just go slow, like I did.

Read all the instructions first before you pick up the soldering iron.
Then make sure
you understand each step before you do it and then proceed. Double and
triple check
your work, don't work too long at once and build that kit you've been
thinking about.
It's a very nice feeling to go on the air with something you've built from
a bag of parts.
If you still have doubts, choose something small to start with, like I did.
A simple
receiver, or maybe just a meter or keyer; but try to make it something that
comes with
an enclosure. Unless you've built enclosures before, they can be difficult
to get looking
"polished" and there is nothing like a finished, working kit in a custom
enclosure to build
your confidence for the next one!

Good luck and remember to have fun.
73,

```
=====
73 de Bob, W3CW
New Hope Pennsylvania
=====
fists #2491
qrp-arc1 #8700
qrp-1 #450
=====
```

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: k8cv@juno.com (Walt D Amos)
Subject: [20459] Phone rates.....
Message-ID: <19970529.144555.10662.1.k8cv@juno.com>

hey guys and gals, in a "high squeaky teen age voice".....

Phone reality.....THEY WILL RIP YOU IF YOU LET THEM
.....

Never call from your hotel room without first checking with the front
desk. PERIOD

Never just use a pay phone. PERIOD

If some operator asks you " what carrier" NEVER say "who cares" because

there is a phone co. named WHO CARES and they will RIP YOU.

GET SMART.

>From any phone, pay or motel, dial 1-800-call-att or 1-800-225-5288 .

There are even some phones this will not work on !! You will just have to find another phone or pay the rip off man. I have found phones in California that nothing would work on and had to drive on.

Since DEREGULATION..... that wonderful word that was going to bring rate reductions, promised by your Washington regulators, anyone can buy a pay phone and set any rate they want. PERIOD

At&t rates may not be the very best but they sure beat the rip of man.

Walt K8CV

We're just a small sub-group of an eclectic corner of a dying hobby.....

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: PDouglas12@aol.com
Subject: [20438] Pick up tools
Message-ID: <970528165408_-1096052460@emout07.mail.aol.com>

Gang,

OK, I guess this is my day to use bandwidth for not exactly QRP but good stuff, nonetheless. Sorry.

Those who spent any time with me at Dayton know I spent some time in the market searching for a tool that is called a "pick-up" in catalogs like (?) Mouser. These are generally plastic pen barrels with a plunger at the top and three wire fingers that protrude from the place where the ballpoint would be. They are perfect for picking up little nuts and screws that fall into equipment, rigs, computers, etc. They are the perfect tool for starting screws and nuts that hold circuit boards into tight cabinets. When you need one, and your big fat fingers won't fit in there, you'll really appreciate having one. These things come in computer tool kits, but they are hard to find alone. I lost mine (three kids in my house, need I say more?) just before Dayton. And I really missed it.

There were none to be found in Dayton--everyone said that "had them, but they sold out." Ugh! Finally found a nice fella at Elenco (800 533 2441) named Jim Cecchin who said to call him--they have them in stock back in Wheeling, IL. So I did. They are \$1.50 apiece, but shipping is 3 bucks. (Catch 22

+-----+

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Alan Kaul <kaul@netcom.com>
Subject: [20433] QRP-list member scores in WPX
Message-ID: <Pine.3.89.9705281608.A1444-01000000@netcom13>

Last chance to send in your WPX scores ---- (are you listening Doug?)
There are only a handful of scores reported so far, including
:

CT1ETT	Rogério
W4DEC	Larry
VE7CQK	Paul
WB5GWB	Jeff
PA3HBB	Dave
W5BVO	Brian
K5OI	Tim
W6RCL	Alan (me!!!)

I'd like to post final scores to the list in another day or two.
I know at least a few more of you operated during the contest--
didn't Doug say he was taking the Sierra and the xyl to the Sierra
mountains for Memorial Day??

All you have to do is e-mail your scores to me at kaul@netcom.com

Pls and tnx and 73/72 de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Steve Hideg <Steve.Hideg.1@nd.edu>
Subject: [20451] Register your web page!
Message-ID: <v03020902afb31ae878b1@[129.74.35.26]>

Greetings.

More and more Internet QRP Club members are developing web pages these days.
We now have a central area for people to get links to these various pages
on the Internet QRP Club Web Site.

You can get to the Internet QRP Club Member Web Page Registry from the club info page on the Internet QRP Club Website:

<<http://qrp.cc.nd.edu/qrp-1/clubinfo.html>>

You can get to the Registry directly at:

<<http://qrp.cc.nd.edu/qrp-1/club/members.html>>

This Registry is driven by a database. Each club member can register a link to his personal web page at this site and it will be instantly added to the database. No interaction with a human webmaster is needed. Additions and updates are automatic and immediate.

The list is in three columns: call sign, member name, and member number (your QRP-L number), and can be sorted by each of these. Each call sign provides the hypertext link to the individual member's page.

Each entry is password protected so you can go back and edit your entry and not have someone edit it without your consent.

72!

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: ji3m@maxwell.com (James R. Duffey)
Subject: [20475] Spanish Radio Magazines?
Message-ID: <v02130507afb39fa9c190@[192.31.66.229]>

Qrpers de Espana - My daughter is visiting Spain next month. She asked me if she could bring a small gift back for me. I thought a Spanish language ham radio magazine would be nice. It would keep me and my high school Spanish occupied for days.

Are there any Spanish QRPers that can tell me the name of a Spanish language ham radio magazine that would be reasonably available (moderate sized bookstore or newstand) without my daughter having to chase all over for it? She will be going with a group of other students so I am not sure how much free time she would have to chase my magazine, or even if she would want to. :-)) - Thanks in advance - Duffey KK6MC/5

James R. Duffey
Principal Scientist

Maxwell Technologies Incorporated/Albuquerque Division
Suite 300
2501 Yale Blvd SE
Albuquerque, NM 87106

(505) 764-3143
(505) 843-7995 (FAX)

From owner-qrp-l@Lehigh.EDU Thu May 29 18:31:28 1997
From: ji3m@maxwell.com (James R. Duffey)
Subject: [20457] Use Guitar Tuner to Match Crystals
Message-ID: <v02130505afb338765ff7@[192.31.66.229]>

Tim - You don't need to have perfect pitch to recognize when the crystals you are measuring by beating an oscillator with the unknown and a receiver BFO together. Use a guitar tuner. Set the switch to a comfortable, probably A (440) or higher note and tune the receiver with the BFO on so that the needle on the tuner indicates it is in "tune". Record the frequency on your receiver. Repeat for the rest of your crystals. Use the ones that are closest together. You may wish to record the S-meter reading as some sort of indication of activity or Q which may also be useful to match if you have enough crystals. This method insures that the zero beat is always at the same frequency.

I use my daughter's guitar tuner, but you can purchase them at most music stores for around \$15-\$20. They are useful devices around the shack. I have used it to measure the doppler shift on the mode A birds as well as insuring that I am zero beat with the last caller during the fox pileups and in setting my transmit/receive offset.

Good Luck. - Duffey KK6MC/5

James R. Duffey
Principal Scientist
Maxwell Technologies Incorporated/Albuquerque Division
Suite 300
2501 Yale Blvd SE
Albuquerque, NM 87106

(505) 764-3143
(505) 843-7995 (FAX)

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Norm Melick <henmel@worldnet.att.net>
Subject: [20449] Re: 10 turn Pots
Message-ID: <338D25E3.48F7@worldnet.att.net>

The response to my problem with the 10 turn pot has been fantastic.

Everyone gave me the same math, and the basically the same response, i.e. wired wrong, or bad pot, short, etc. Soooo, I went down to the store, and checked the pots with my ohm meter, as some suggested. Every pot worked great, until I hit the stop. When I hit the stop, the ohm meter indicated a short on 8 of them. The other 2 indicated an open. I checked the one turn pots, and none of them shorted out or indicated an open. They all stopped at 100K. My cat like brain figured out the problem, after being pointed in the right direction by the group. I am going to be a little more critical of the meter readings before I buy another pot. At \$16.00 each, they are a little steep.

I normally would thank everyone with an individuall response. However, my modem gave out last night, and I am using an older, slower, and cantankerous modem. So let me use this post to thank all of you who responded. (there were 18 at last count). Each and every response was educational, direct, to the point, and very much appreciated.

Thanks,

Norm

Oh yea, the pots in question were marked "Clarostat,73JB." The schematic is imprinted on the pot.

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Norm Melick <henmel@worldnet.att.net>
Subject: [20468] Re: 10 turn Pots
Message-ID: <338DDFD5.1295@worldnet.att.net>

I just came back from the store, with a new 10 turn pot. Checked it out at the counter, no shorts, opens, etc. Then I did what William Hibbert/WB2VUO said he did, and added a 100 ohm resistor to each leg.

I now have a \$200.00 38S. It works fine, though!!

And the education!! Now just one last thing. I increased the audio by

jumpering R24, but I still have to have the RF gain control to max. to get decent audio. Is this normal, or can something else be done to increase the audio?

Thanks to all,

Norm

From owner-qrp-l@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Robert J. Gobrick" <rgobrick@worldnet.att.net>
Subject: [20446] Re:bad mixers exist
Message-ID: <3.0.32.19970528235235.00c377a0@postoffice.worldnet.att.net>

Jeff, Paul and QRP-L Gang,

I've been following the thread on Jeff's "blown" SBL-1 on his Index Lab QRP+. Having owned a QRP+ and having had it back to the factory twice back in the early days before I returned it to the factory for it's final stay (I was refunded my purchase) I will have to go along with Jeff's hunch that it was a blown SBL-1 that was the problem.

For what ever reason Index Labs had a design problem which I was never able to understand with SOME of the SBL-1 mixers and SOME of the QRP+ rigs. The feedback that I got was that the problem was a static discharge off of my long wire antenna that took out my first SBL-1. Index suggested at that time that they were looking into a mini gas discharge protection circuit. But I suspect what it really turned out to be was a timing problem in T/R switching circuit that "allowed" some high level (5 W) RF to reach the mixer and fry it (Larry East- is that possible). I believe this is what happened on my second visit back to the factory since I "lost" it during a turn-over to a station I was talking to (ever wonder why someone you talk to on CW just disappears - hi).

Anyway WE do know that the QRP++ went to a hardier mixer (Synergy Microwave Corp) to overcome the "dessert storm" effect but I was never comfortable that everything was still OK. I will have to say that I have talked to many QRP+ owners who have never had a problem and are happy campers. And I also have to say that I have experienced the static discharge problem in the past with other rigs - I used to wonder why I would see a little light coming out of my turned-off Icom R-71 receiver - turned out Icom had a little neon discharge bulb across the antenna input that would "glow" during stormy weather.. if I only knew what that was ... Also when I was in Newfoundland I used to hear my MFJ tuner make popping noises which I account to the dry "ion" charged storm winds blowing across my long wire - neat sound ..pop..pop...pop (never did want to look inside - hi)

Anyway Jeff, I think you and your friend solved your problem by replacing the SBL-1. But I won't guarantee that the problem won't happen again - Follow the advice that Larry East W1HUE writes in his two part QRP ARCI QRP Quarterly article for QRP+ mods.

Also Paul, I was wondering if you guys in that nice dry climate in New Mexico experience any of the "desert storm" static problems. When I had a 5/8 wave vertical mounted on top of my VW Van tied into my old Icom IC-27 two meter rig and after a few hours of high speed driving in the VW (oxymoron) I would get so much de-sense to the rig that the only cure would be to stop (easy to do in a VW) and go out and short (discharge) the Larson whip to the Van body to start afresh.

Enough rambling - cheers 73/72 Bob N0EB

| PLEASE NOTE NEW EMAIL ADDRESSES - PLEASE REPLY TO BOTH ADDRESSES |
|

| Bob Gobrick - N0EB & V01DRB (ex WA6ERB, VE2DRB) Stillwater, MN |

| Internet: rgob@tco.infonet.com |

AND Internet: rgobrick@worldnet.att.com

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997

From: Harvey Hetland <n6mm@earthlink.net>

Subject: [20448] Re: bad mixers exist

Message-ID: <338D7744.6C36@earthlink.net>

There are conditions in some amateur radio stations under which it is possible to blow a double balanced mixer like the SBL-1. Several years ago after eliminating several possibilities like the local oscillator signal I was convinced that the CM-1HF mixer in my Drake TR7 was blown. A call to Drake confirmed my conclusion as well as my suspicion as to the probable cause. I had been transmitting on 14 MHz with about 600 watts output into a 3 element monoband beam while the TR7 was also on 14 MHz and connected to a three element tribander about seventy feet away.

At the time Drake had an overload protection device they sold for use on a commercial communications receiver that could fitted to the TR7 (the version for the TR7 was no longer available). The purpose of the device was to avoid such problems in commercial communications environments. I invested in one, but it has lived in the desk drawer, because Drake indicated that intermodulation products might occur with the device. I suspect it was basically back-to-back zener diodes or something similar. I have been very careful not to duplicate the situation and

the TR7 is alive and well.

73, Harvey, N6MM.

From owner-qrp-l@Lehigh.EDU Thu May 29 18:31:28 1997
From: Ed Loranger <we6w@qsl.net>
Subject: [20470] Re: Bound QRPP's:Great Reference Mat'l
Message-ID: <338DE1E4.FF5@qsl.net>

I agree completely regarding the quality of QRPP magazine!

Unfortunately, my son's braces are eating (Pun intended),
up all of my play(ing) money.....

Looks like another 6 mos till I get the mags..

-Ed Loranger

--

72/73 de WE6W QRP .3W QSX 7040 KHz SK ee (First and Last callsign!)
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.
mailto:we6w@qsl.net QRP-L member #1068.
<http://www.qsl.net/we6w>

From owner-qrp-l@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Dave Maliniak" <dmaliniak@penton.com>
Subject: [20471] Re: Bound QRPP's:Great Reference Mat'l
Message-ID: <852564A6.006E5CFC.00@mail.penton.com>

Had to echo Randy's sentiments. The bound volumes of QRPP are a treasured possession. I read, re-read, and re-read them again, because every time I do, I come across another nugget of wisdom or some mod I just gotta try.

I know it's been said over and over, but you can't say enough about Doug Hendricks's efforts in turning out what is one of the QRP world's finest journals. I'm an editor myself, so I know exactly how much work goes into the job he does. And darned if it doesn't get better with each issue. Anybody out there on this list who's not a subscriber just doesn't know what they're missing. I look forward to each QRPP with great anticipation.

72 David N2SMH
Glen Rock, NJ

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: n4js@amsat.org (John Sielke)
Subject: [20442] Re: CQrp and CQC
Message-ID: <338def64.3791419@mail.cyberenet.net>

Well, I got several responses to my query about CQRP. Glad to hear all is well. Thanks.

Unfortunately, not a peep from anyone in or about CQC. Guess either they are defunct, too busy, or don't associate with us "flatlanders."

_ _ _ _ _	John L. Sielke	n4js@amsat.org	n4js@pobox.com
\ _ / _ _	n4js@n4js.ampr.org	NJ Grid:FM29LN	
. ' _ _ \ _ _ \	http://www.qsl.net/n4js		
_ \ _ _ \ _ _ / _ _ /	NJ-QRP #57	QRP-L #884	QRP-ARCI #9328
NE-QRP #507	G-QRP #9544	NorCal #1989	QCWA FISTS #2781

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [20443] Re: Dayton phone scam (fwd)
Message-ID: <338ddad0.1913372@smtp.usit.net>

On Tue, 27 May 1997 21:31:54 -0600, "Bob Follett"
<bfollett@ditell.com> wrote:

>Hi Gang:

>

>Actually, what Mike experienced is, unfortunately, fairly common with =
the
>lower-end hotels.

...

>Interestingly, you won't run into this scam in any high-end hotel chain.=
(but
>can still get higher charges than your normal carrier).

Having just returned from a job interview, I agree, somewhat.
Perhaps the pay phones are honest, but the room phones in high-end

hotels are anything but (IMHO). I stayed at the Doubletree Guest Suites, \$105 per night plus tax. Made two calls, one to my wife, and one to my daughter, totalling three minutes for both (daughter was with grandma, as wife had to work). Total charge was \$17.50.

I understand having higher rates ... but \$5.00 p/min seems a little steep.

(I'm unemployed at the moment, and don't have a phone, so phone calling card isn't accessable to me).

Another "there auta be a law ..." for the masses to consider.

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal #2031 - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: JDuffy@aol.com
Subject: [20450] Re: Dayton phone scam (fwd)
Message-ID: <970529074625_-994990152@emout13.mail.aol.com>

In a message dated 97-05-29 00:28:25 EDT, you write:

<<
(I'm unemployed at the moment, and don't have a phone, so phone calling card isn't accessable to me). >>

Anyone can get a calling card by using their home number through their current long distance carrier. You do not have to be a business.

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Bigbob97@aol.com
Subject: [20453] Re: Dayton phone scam (fwd)
Message-ID: <970529083929_-1062103621@emout08.mail.aol.com>

In my experience the outrageous phone charges are not unique to DIS and this

is quite a regular occurrence with many pay phones here in the NYC area.

Seems that the bastard phone companies get some sort of "equal access" and you just have to keep redialing until you hear the name of a company you know. That is, the default carrier is not always the same guy. Also, there are codes to dial to select the carrier you want - even if you do not have an account with them.

In short, I would not blame the problem on DIS. My solution to the problem is that I have an account with one company and I always use their numbers.

Sometimes the payphone does not accept the number, which I understand is illegal, so I just don't make the call or use my cellular.

Remember when making a phone call was as easy as "just picking up the phone?"

Well, it might be that way again, after all these mergers. Ma Bell is back - and takin' numbers! (we'll see)

73 to all,
Bob WB2DHK

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997

From: kc5moe@juno.com (John E Hutter)

Subject: [20458] Re: Dayton phone scam (fwd)

Message-ID: <19970529.094113.7831.0.KC5MOE@juno.com>

>Remember when making a phone call was as easy as "just picking up the
>phone?"

> Well, it might be that way again, after all these mergers. Ma Bell
>is back

>- and takin' numbers! (we'll see)

>

>73 to all,

>Bob WB2DHK

Yeah, at least until another federal judge sticks his fat nose
where it doesn't belong again. BTW, what's the difference between
a catfish and a lawyer?

One's a scum-sucking bottom-feeder and the other's a fish.

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997

From: laura halliday <ve7ldh@direct.ca>

Subject: [20466] Re: Epoxied mixer removal

Message-ID: <338DBC0C.2E9961B5@direct.ca>

Ed Tanton wrote:

> (snip)
> I'm REALLY curious about why these guys were expoxied down.
> People don't waste manufacturing steps, therefore there
> must have been some reason in Bruce's mind, and I don't
> believe it was just to hold the thing down. I wonder if
> you could get some kind of microphonics through the mixer? Seems
> to me like RTV would have been a better choice for that.
> (Sometimes SMT parts are sort of glued down-but not with
> epoxy-and the mixer wasn't SMT-as I understand it... correct
> me if I'm wrong about that someone.)

SBL and SRA series mixers are leaded affairs, little metal blocks with 8 leads coming out the bottom. Similar mixers in surface mount packages include the JMS and TUF series. I've played with JMS-1 mixers, which perform very much like SBL-1s. Except that they cost less and are half the size. TUF mixers are cool too.

Wave soldering requires that parts be glued down, since the board is then turned upside down and swished through a bath of molten solder. This bath is agitated and looks like a perpetual tsunami - hence the term "wave soldering". This process is compatible with leaded parts, except that you let gravity hold the parts in place.

The alternative is reflow soldering, where the board is treated with a paste that contains tiny balls of solder and flux in a sticky suspension. The parts stick in place, and the board is then run through a machine that heats it up, melting the solder and completing the operation. You can do this yourself with solder paste and a hot air gun - solder paste is available in syringes, ostensibly for rework, but it's handy for home construction too.

Modern components are designed to withstand such treatment. Mini-Circuits have some excellent writeups on the subject, and I'm sure others do too.

I've salvaged parts from both kinds of boards. The glue used on wave soldered boards looks like a little blob under the component, but it's not very strong - a light push will free

the component, once you've dealt with the solder.

That you can actually break SBL-1s amazes me. In my experience I've found them to be tough and hard to kill.

I know. I've tried. :-)

--

Laura Halliday "C'est une femme mutine, assez elegante,
ve7ldh@direct.ca grave et legere, ayant le sens
Grid: CN89mg du confort et du plaisir en tout."
 - C. Deneuve

From owner-qrp-l@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Robert J. Gobrick" <rgobrick@worldnet.att.net>
Subject: [20441] Re: Improve your CW
Message-ID: <3.0.32.19970528205619.00c35964@postoffice.worldnet.att.net>

Scott and QRP-L gang,

Thanks for the info and I also got word from Ron KU7Y that he uses the same material to line his shelves. And to top it off I happened to be in Office Max today and there on the shelf was the same "carpet mat" material used for lining office shelves etc. AND it was in colors. Anyway it just goes to show how an entrepreneur company like Prosoft Plus took this material, cut it up into "sellable" sizes for different code keys and gave it a jazzy ham radio name. I probably would have never bought the stuff if I didn't see that it could be used for ham radio - hi.

Thanks Scott and Ron. 73/72 Bob N0EB

At 04:05 5/29/97 +0000, you wrote:

>Hi Bob,

>

>Go to your local store and look in the houseware dept. You will find that
>material in rolls. It's used to line shelves and stuff. Buy a large roll
>for aprx \$3.00. It works great I've been using it in the shack ever since
>it first came out. All kinds of uses.....

>

>73's

>Scott

>KB2GWF

>Robert J. Gobrick wrote:

>>

>> QRP-L Gang,
>>
>> I KNOW this is something you cw advocates missed at Dayton. At Dayton's
>> indoor booth #481 Prosoft Plus (near UCR of Delaware booth) I picked up for
>> \$1 the "Magic Key Gripper" - neat key pad made of what looks like super
>> thin carpet mat material (synthetic) that prevents your key from sliding
>> around the table. What I like about it is that the material is super thin
>> and does not appreciable raise the key height. Now for the "clincher" -
>> you can select what color your like - I happened to pick burgundy to match
>> the wood grain of my Vibroplex Brass Racer.
>>
>> Now where else can you find such valuable information but on the QRP-l
list.
>>
>> Info "Magic Key Gripper" by Prosoft Plus, 3066 Grand View Dr, Allegan MI
>> 49010 - phone 1-800-673-4563
>>
>> 73/72 Bob N0EB

```
-----  
| PLEASE NOTE NEW EMAIL ADDRESSES - PLEASE REPLY TO BOTH ADDRESSES |  
|  
| Bob Gobrick - N0EB & V01DRB (ex WA6ERB, VE2DRB) Stillwater, MN |  
| Internet: rgob@tco.infonet.com |  
| AND Internet: rgobrick@worldnet.att.com |  
|-----
```

From owner-qrp-l@Lehigh.EDU Thu May 29 18:31:28 1997
From: Steve Miller <kg7pv@teleport.com>
Subject: [20432] Re: matching xtals
Message-ID: <3.0.1.32.19970528161312.00689c78@mail.teleport.com>

>At 13:58 5/28/97 -0800, you wrote:
>>
>>
>> Gang:
>>
>> Don't laugh out loud but:
>>
>> When hand picking crystals for a filter network, can you do it by ear?
>> That is to say, can you plug them into an oscillator circuit and
>> listen on a receiver for the ones closest in tone? Or are you looking
>> for much more precision?
>>
>> How close should they be to each other? What can I expect?
>>

>> What if I just use four from the same batch? If they are off a little
>> how much will it affect the final result?

>>

>>

>> Tim, ka8ddz

>>

Tim, you have to match frequency. Build a little oscillator test circuit.
Use a frequency counter and try to find four that are within a small range.

The rule of thumb is 10% of your filter bandwidth. So a 400 hz filter
would need 4 xtals within 40 hz. I bought 20 from Digikey (or Mouser ?)
last time and matched two sets - one within 10 hz and one within 20 hz.
There was another that was about 40 hz so my order of 20 was plenty. The
tighter the range the better. 73 and gl.

Steve Miller kg7pv @ teleport.com Portland, OR
(CN-85) Norcal #308 QRP-L #109 ARCI # 9230

From owner-qrp-l@Lehigh.EDU Thu May 29 18:31:28 1997
From: "John F. Woods" <jfw@jfwhome.funhouse.com>
Subject: [20435] Re: Matching Xtals for Filters
Message-ID: <199705282359.TAA24621@jfwhome.funhouse.com>

Tim asks:

> When hand picking crystals for a filter network, can you do it by ear?
> That is to say, can you plug them into an oscillator circuit and
> listen on a receiver for the ones closest in tone? Or are you looking
> for much more precision?

>

> How close should they be to each other? What can I expect?

>

> What if I just use four from the same batch? If they are off a little
> how much will it affect the final result?

>

Ed replied:

> In a word Tim: no. It IS a thought: if you had "perfect pitch" AND a
> receiver that was stable to several cycles short term-or rather for the
> time necessary to compare enough crystals to find your matches... then
> maybe. But I question whether a person can distinguish differences in the
> tens of cycles (OK: Hertz.) Personally I don't think so.

Someone with musical training ought to be able to match pitches within several

Hertz; with perfect pitch, one Hertz or less! (There was an exhibit at the Pacific Science Center many years ago where you were supposed to match a pitch (you got to toggle between the VFO and reference tone as often as you liked), and I was consistently able to get within 1-2Hz, and I don't have perfect pitch!) But as I recall, for someone without musical training, several tens of Hz is more typical. (And matching pitches exactly might be easier than figuring out which pair of three tones are closer to each other, especially given the logarithmic response of pitch perception!) It's certainly easier with a frequency counter. ;-)

How close should they be? I think tens of Hz apart is OK (my references are all buried at the moment, but QRP Classics and/or The Handbook ought to have articles on the subject).

Four from the same batch of computer crystals could be several hundred Hertz off (that "100ppm" that may be stamped on the case is usually way too optimistic...).

If you have a lot of time to waste, a well-stocked junkbox, and no budget for a frequency counter, you might be able to put together an FM frequency discriminator that you could tune to zero the meter on one crystal, and then look for minimum responses from the other crystals. I don't have a circuit handy (see above :-), but the ARRL Handbook ought to still show examples of such fossils.

73, John, WB7EEL

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [20436] Re: NE602's - Disappearing?
Message-ID: <Roam.SIMC.2.0.6.864865271.8740.myers@bigboy>

Frank G3YCC wrote:

> I was buying some NE602AN's today and my supplier informed me that
> production of this device has either ceased or is about to so do.
> Apparently there is a replacement device in the offing. There are large
> stocks of the 602's around of course, so there is unlikely to be any
> problem getting them for a couple of years maybe - IF the information is
> accurate. Does anyone know any more about this? Is it true - or what?

I've been hearing this rumour, too. Someone ought to directly ask Philips, I'll have a look at their web page.

My personal feeling about the NE602 is that the correct replacement for an NE602 in a receiver front end is a couple of J310s and a TUF-1 mixer,

but that's another story ;-).

Dana K6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Jim Kortge, K8IQY" <jokortge@mci2000.com>
Subject: [20477] Re: No subject given
Message-ID: <3.0.1.16.19970529174136.2a57868e@mail-cluster.pcy.mci.net>

At 01:58 PM 5/28/97 -0800, Tim, ka8ddz wrote:

>

>

> Gang:

>

> Don't laugh out loud but:

Never do, a smirk is much better! (Only kidding Tim) :-)

> When hand picking crystals for a filter network, can you do it by ear?

> That is to say, can you plug them into an oscillator circuit and

> listen on a receiver for the ones closest in tone? Or are you looking

> for much more precision?

If you have a good receiver, with 10 Hz resolution, you can measure them
by zero beating each, and reading its frequency off the receiver dial.

> How close should they be to each other? What can I expect?

Ideally, the whole group ought to fit into a 100 Hz tolerance.

> What if I just use four from the same batch? If they are off a little

> how much will it affect the final result?

Depends on how far off each is. The more the error, the wider
the filter response will be. Don't be afraid to try this approach though.
You might get lucky.

>

72....Jim

Jim Kortge, K8IQY (ex NU8N)		NorCal, QRP-L
jokortge@mci2000.com	__o	H.F. bicycle mobile
Fenton, MI	_'\<,	Mizuho 17/40 SSB
...	(*)/(*)	...
NorCal 38S Log - 33 States;	36 Countries -	Running 3 watts
Most recent - VA	Senegal	

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Stephan Greene <sgreene@washsq.com>
Subject: [20460] Re: Oak Hills Research and a new station
Message-ID: <Pine.LNX.3.95.970529110038.27838G-100000@ftp.washsq.com>

On Thu, 29 May 1997, Bob Hirsch wrote:

I can second Bob's comments on the 2 kits I've built - the OHR SCAF and the Super CMOS (mine was the II)

> Super CMOS III keyer
>
> Oak Hills Research OHR 400
> Oak Hills Research DD1
> Oak Hills Research SCAF

I built the SCAF filter about 2 years ago. While the instructions are not as detailed as Heathkits, they are quite good (I am not an expert builder). I had no problems assembling the unit (there was one step I decided to reverse because I felt I could get everything into the case more easily, otherwise I followed the assembly instructions). It is a very nice audio filter if you can't afford or don't want a full DSP unit. There's a little ringing at the narrowest settings, and I've noticed that the "default" sidetone on many rigs is different from the center frequency I set on the SCAF (enough so you can make sidetone disappear at very narrow filter settings). The kit is extremely well made; I would recommend it as a good starter or 2nd kit.

The Super CMOS II is a story. I bought it a couple of years ago, stuffed the board, and forgot to finish it. I decided with FD coming I need a memory keyer, so I started to finish the job 2 nights ago. Well, my 30-watt iron was too hot and I started to wreck the board. Also the parts layout wasn't as obvious as I'd like versus the many "extra" holes in the board, so I was sure I'd made some mistakes. I picked up a smaller iron last night, finished the job and cleaned up the messes I could see (gotta start thinking about a magnifying glass for this work, and I'm *only* 42).

I grabbed a bunch of clip leads for power, speaker, and keying. Lo and behold, the keyer sent "OK" and seems to work (I haven't tested the memory buttons or output line yet). Sometimes miracles DO happen! I'll grab the parts I need to finish it tonite.

The Super CMOS II was more a bag of parts and a board than a kit with detailed assembly instructions (I don't know if the III is similar). So some experience is in order, I'd think.

And then there's the HW9 kit I bought in Jan 1987 that's waiting to be

finished, fixed, and aligned....

73 Steve KA1LM ka1lm@amsat.org
QRP-L #232

Stephan A. Greene sgreene@washsq.com
PGP Public Key 0xB96717F5 1996/10/01 at <http://www.washsq.com/~sgreene/>

From owner-qrp-l@Lehigh.EDU Thu May 29 18:31:28 1997
From: New TELIS User Name <ki6ds@telis.org>
Subject: [20440] Re: QRP-list member scores in WPX
Message-ID: <Pine.GS0.3.96.970528184910.10219A-100000@homeroom>

Alan, yes I did work the WPX, made two contacts, an XM7 and our own Bob Tellefsen, N6WG. It was just too beautiful, the scenery, the weather, and my friends just did not give me time for any radio. So that is the report from KI6DS. 72,Doug, KI6DS

On Wed, 28 May 1997, Alan Kaul wrote:

> Last chance to send in your WPX scores ---- (are you listening Doug?)
> There are only a handful of scores reported so far, including
> :
> CT1ETT Rogerio
> W4DEC Larry
> VE7CQK Paul
> WB5GWB Jeff
> PA3HBB Dave
> W5BVO Brian
> K5OI Tim
> W6RCL Alan (me!!!)
>
> I'd like to post final scores to the list in another day or two.
> I know at least a few more of you operated during the contest--
> didn't Doug say he was taking the Sierra and the xyl to the Sierra
> mountains for Memorial Day??
>
> All you have to do is e-mail your scores to me at kaul@netcom.com
>
> Pls and tnx and 73/72 de alan
>
> [Alan Kaul, W6RCL] kaul@netcom.com
>
>

>

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Alan Kaul <kaul@netcom.com>
Subject: [20444] Re: QRP-list member scores in WPX
Message-ID: <Pine.3.89.9705282157.A18382-01000000@netcom16>

On Wed, 28 May 1997, New TELIS User Name wrote:

> Alan, yes I did work the WPX, made two contacts, an XM7 and our own Bob
> Tellefsen, N6WG. It was just too beautiful, the scenery, the weather, and
> my friends just did not give me time for any radio. So that is the report
> from KI6DS. 72,Doug, KI6DS

>

OK, DOUG ... if you want I can score it for you -- or we can leave
it out if you don't want the notoreity.
Aiming for a Friday night posting. best 72/73 de alan

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [20464] Re: SLV, Verticals, Etc.

Text item:

>I am copying KK6MC and W6RCA on this posting in hopes they will gave
>favorable consideration to working as a team on this special project.
>de Dave, NF0R nf0r@slacc.com

Hi Dave, James and my argument was over 0.02 'S' units and was
primarily cerebral. You did ham radio a tremendous service by
introducing the SLV and the difference between the original
SLV and a very good 1/4wl fixed vertical is only one 'S' unit.
The problem with verticals compared to horizontals is the
vertical is omnidirectional, diluting its signal compared
to a horizontal. The earth is the enemy of verticals and must
be tamed and modified. The earth is the friend of horizontals
and increases the gain over free space.

The principles for enhancing verticals are well known:
Make the radiating section as long as possible up to 5/8wl.
Make any matching coil high Q, which precludes any insulation.

Use at least 16 $1/4w_l$ radials.
Place the coil as high on the element as possible.
Use a top-hat if possible.
Elevate the system if possible.

Above 20m, the SLV becomes longer than a $1/4w_l$ so between 20m and 10m, it is inductive and requires no coil. Instead, to resonate, it requires a series capacitor which is much more efficient than a coil. There is a length longer than $1/4w_l$ which will allow a series *capacitor* to give a perfect match to either 50ohm or 75ohm coax.

I hope our esoteric argument didn't dim your enthusiasm. The SLV is becoming to verticals what the G5RV is to horizontals, i.e. famous.

I'll try to post the principles of monopoles along with graphics on my web page just as soon as the alligators turn loose of me.

73, Cecil, W6RCA, 00TC

Text item: External Message Header

The following mail header is for administrative use and may be ignored unless there are problems.

IF THERE ARE PROBLEMS SAVE THESE HEADERS.

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
Subject: SLV, Verticals, Etc.
Message-Id: <9705262303.D5663iy@slacc.com>
From: nf0r@slacc.com

From owner-qrp-1@Lehigh.EDU Thu May 29 18:31:28 1997
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
Subject: [20447] Re: [CW] re: xtal measurements
Message-ID: <3.0.16.19970529051620.20c7b7ee@som-uky.campus.mci.net>

>From the KA8OKH technical archives (the attic) -
>
>Have a look at QST, May 1982 - "A Unified Approach to the Design of
>Crystal Ladder Filters" by W7ZOI.
>Describes a good test setup for evaluating xtals for filter use.
>...okh

Rich Dailey - KA8OKH <ka8okh@som-uky.campus.mci.net>
The KA8OKH Web - <www.qsl.net/ka8okh>
Norcal #1985 qrp-l #933 ars #223 amsat #11900... ZUT!
